

1 Amendments to the Specification:

2 Please replace the paragraph beginning at page 8, line 7, with
3 the following rewritten paragraph:

4 Fig. 1 shows the straight tube portion 52A of the membrane and
5 Fig. 2 shows a section view through the membrane and one of the
6 vertical measurement instruments. In a constant thickness version
7 of the membrane, the thickness of 52A in Fig. 1 is thicker than the
8 cross section dimension of the displacement sensor, which requires
9 its minimum thickness to be larger than that necessary to produce
10 the pressure barrier alone. The thickness may vary in other
11 embodiments, such as that produced by the fabrication mold
12 assembly, discussed below in the manufacturing method portion of
13 this application. The membrane section shown in Figs 1 and 2 show
14 a cavity 52B that is molded into the membrane material, such as
15 silicone or latex rubber, or other polymeric materials, and this
16 cavity receives the LVDT (linear variable differential transformer)
17 type displacement transducer ~~76A, 76B, and 76C~~. The cavity 52B
18 is tubular in nature, but it is not centered within the wall
19 thickness of the membrane. By offsetting the cavity toward the
20 outside surface of the membrane, the large diameter portions of the
21 cavity are actually open to the outside surface of the membrane by
22 the slit 52C in Fig. 1.

1 Please replace the paragraph beginning at page 14, line 19,
2 with the following rewritten paragraph:

3 For applications only requiring vertical (i.e. axial)
4 measurements, features 214, 216, and 218 are unnecessary. For a
5 single circumferential measurement, and for applications in which
6 radial measurements do not occupy the same horizontal planes
7 occupied by the vertical cavity components 210A and 210C, a support
8 216 having a cavity 216A formed by a forming wire 218 such as used
9 to form the cavity 86, ~~and a support for the wire 216, 216A (also~~
10 ~~shown in another view in Fig. 10)~~ are used.